

- (a) contacting said sample having said neutralizing agent and a competing drug to said therapeutic protein, a target of said therapeutic protein, and a mitigating agent;
- (b) measuring a binding of said therapeutic protein to said target; and
- (c) comparing the result of (b) to a control measurement to detect said neutralizing agent.
- 2. The method of claim 1, wherein said control measurement includes measuring binding of said therapeutic protein to said target in the absence of a neutralizing agent.
- 3. The method of claim 1, wherein said neutralizing agent is a neutralizing antibody.
- 4. The method of claim 1, wherein said therapeutic protein is selected from a group consisting of an antibody, a soluble receptor, an antibody-drug conjugate, and an enzyme.
- 5. The method of claim 1, wherein said therapeutic protein is a monoclonal antibody.
- 6. The method of claim 5, wherein said monoclonal antibody is selected from a group consisting of an anti-PD-1 antibody, an anti-TNF antibody, an anti-PD-L1 antibody, an anti-EGFR antibody, an anti-CD20 antibody, an anti-CD38 antibody, and an anti-LAG3 antibody.
- 7. The method of claim 1, wherein said therapeutic protein is a bispecific antibody.
- 8. The method of claim 7, wherein said bispecific antibody is selected from a group consisting of a CD20×CD3 antibody, a BCMA×CD3 antibody, a EGFR×CD28 antibody, and a CD38×CD28 antibody.
- 9. The method of claim 1, wherein said therapeutic protein is immobilized to a solid support.
- 10. The method of claim 1, wherein said therapeutic protein is labeled for detection.
- 11. The method of claim 10, wherein said label is detectable by fluorescence, chemiluminescence, electrochemiluminescence, radioactivity, or affinity purification.
- 12. The method of claim 11, where said label comprises ruthenium.
- 13. The method of claim 1, wherein said target is an antigen, a receptor, a ligand, or an enzymatic substrate.
- 14. The method of claim 1, wherein said target is a cell surface protein.
- 15. The method of claim 1, wherein said target is a recombinant protein.
- 16. The method of claim 1, wherein said target is expressed by a cell.
- 17. The method of claim 16, wherein said cell is a HEK293 cell, a MOLP-8 cell, a Jurkat cell, or a modified version thereof.
- 18. The method of claim 1, wherein said target is immobilized to a solid support.
- 19. The method of claim 1, wherein said target is labeled for detection.
- 20. The method of claim 19, wherein said label is detectable by fluorescence, chemiluminescence, electrochemiluminescence, radioactivity, or affinity purification.
- 21. The method of claim 1, wherein said target is an enzymatic substrate.
- 22. The method of claim 1, wherein said target is CD20, CD3, BCMA, PD-1, EGFR, CD28, CD38, TNF, PD-L1, or LAG3.
- 23. The method of claim 1, additionally comprising a second target.
- 24. The method of claim 1, wherein said competing drug is a monoclonal antibody.
- 25. The method of claim 24, wherein said competing drug is rituximab, pembrolizumab, nivolumab, ocrelizumab, obinutuzumab, ofatumumab, ibritumomab tiuxetan, tositumomab, ublituximab, cetuximab, daratumumab, or adalimumab.
- 26. The method of claim 1, wherein said competing drug is a bispecific antibody.
- 27. The method of claim 1, wherein said mitigating agent is a monoclonal antibody.
- 28. The method of claim 1, comprising using two, three, four or more mitigating agents.
- 29. The method of claim 1, wherein a binding of said therapeutic protein to said target is measured by measuring receptor phosphorylation, phosphorylation of downstream proteins in a signal transduction pathway, cytokine release, cell proliferation, cell death, or production of a secondary protein.
- 30. The method of claim 1, wherein a binding of said therapeutic protein to said target is measured by the expression of a reporter gene.
- 31. The method of claim 30, wherein said reporter gene is luciferase.
- 32. The method of claim 1, further comprising a pre-treatment step of contacting said sample to said mitigating agent prior to contacting said sample to said therapeutic protein or said target.
- 33. A kit, comprising:
  - (a) a therapeutic protein;
  - (b) a target of said therapeutic protein;
  - (c) a neutralizing agent against said therapeutic protein;
  - (d) a competing drug; and
  - (e) a mitigating agent.
- 34. The kit of claim 33, further comprising cells that express said target.
- 35. The kit of claim 34, further comprising cells that produce a measurable activity or signal in response to the binding of said therapeutic protein to said target.
- 36. The kit of claim 35, wherein said activity is the expression of luciferase.
- 37. The kit of claim 33, wherein said target is immobilized to a solid support.
- 38. The kit of claim 33, further comprising a label affixed to said therapeutic protein.
- 39. The kit of claim 38, wherein said label comprises ruthenium.